

**REVISED EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
BUILDING STANDARDS COMMISSION
REGARDING THE ADOPTION BY REFERENCE OF THE
2006 EDITION OF THE UNIFORM PLUMBING CODE (UPC) WITH PROPOSED AMENDMENTS
INTO THE 2007 CALIFORNIA PLUMBING CODE (CPC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5**

The California Building Standards Commission (BSC) proposes to adopt the 2006 edition of the Uniform Plumbing Code (UPC) for codification and effectiveness into the 2007 edition of the California Plumbing Code (CPC) as presented on the following pages, including any necessary amendments. BSC further proposes to:

- Repeal the 2000 edition of the Uniform Plumbing Code;
- Repeal amendments to the model codes that are no longer necessary, repeal or amend building standards that are not addressed by a model code;
- Relocate or codify existing adopted and necessary amendments to the model code into the format of the model code proposed for adoption, the action of which has no regulatory effect; adopt new necessary amendments to the model code proposed for adoption; and/or
- Adopt new building standards that are not addressed by the model code proposed for adoption

LEGEND FOR EXPRESS TERMS:

1. **Existing California amendments or code language being modified:** All such language appears in *italics*, modified language is underlined or shown in ~~strikeout~~.
 2. **New UPC language with new California amendments:** UPC language shown in normal Arial 9 point; California amendments to UPC text shown underlined and in italics.
 3. **Repealed text:** All such language appears in ~~strikeout~~.
 4. **Amended, adopted or repealed language after public hearing:** Amended, adopted, or repealed language will appear in double underline and ~~double strikeout~~.
 5. **Notation:** Authority and Reference citations are provided at the end of each chapter.
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Original Proposed Amendment:

None proposed for section.

Proposed Amendment:

604.10 *Water pipe and fittings with a lead content which exceeds eight (8) percent shall be prohibited in piping systems used to convey potable water.*

Note: *On or After January 1, 2010, see Section 116875 of the Health and Safety Code for the lead content of pipes, pipe or plumbing fittings, or fixtures intended to convey or dispense water for human consumption*

Rationale: *BSC is proposing to add the note to direct the users to a new section of law, Chapter 853 (Chan AB 1953) Statutes of 2006 that will take effect in January of 2010. The proposed language has no regulatory effect.*

Original Proposed Amendment:

Section 604.1

Exception: 2. [For BSC] ~~The use of PEX in potable water supply systems is not adopted for applications under the authority of the Building Standards Commission.~~

Proposed Amendment:

TABLE 6-4¹

Material	Water Distribution Pipe and Fittings		Building Supply Pipe and Fittings
	Hot	Cold	
Asbestos – Cement			X
Brass	X	X	X
Copper	X	X	X
Cast Iron	X	X	X
CPVC	X	X	X
Galvanized Malleable Iron	X	X	X
Galvanized Wrought Iron	X	X	X
Galvanized Steel	X	X	X
PE			X
PE-AL-PE	X	X	X
PEX ¹	X	X	X
PEX-AL-PEX ¹	X	X	X
PVC			X

1 [For BSC] The use of PEX and PEX-AL-PEX in potable water supply systems is not adopted for applications under the authority of the Building Standards Commission.

Rationale:

Building standards for cross-linked polyethylene tubing (PEX) first appeared in the 2000 Uniform Plumbing Code; and building standards for cross-linked polyethylene-aluminum-cross-linked polyethylene tubing (PEX-AL-PEX) first appeared in the 2003 Uniform Plumbing Code. PEX and PEX-AL-PEX are now utilized in 49 other states and over 300 localities in California. BSC gives great weight to the methods and testing which led to inclusion of these products in the Uniform Plumbing Code; and for this reason, included the products in the proposed 2007 California Plumbing Code. However, during the public comment period for adoption of these products into the 2007 California Plumbing Code several issues were raised that cannot be fully addressed within the timeframe for adoption in this code adoption cycle. Therefore, BSC proposes to remove proposed building standards for PEX and PEX-AL-PEX from the proposed 2007 California Plumbing Code.

Withdrawal of PEX and PEX-AL-PEX from the proposed California Plumbing Code does not result in a prohibition of the use of these products. Local building officials remain authorized to approve PEX and PEX-AL-PEX pursuant to alternate approval provisions on a case-by-case basis, or by ordinance, upon an expressed finding that it is reasonably necessary because of local climatic, geological, or topographical conditions.

Original Proposed Amendment:

604.11 PEX. ~~[Not Adopted by BSC]~~ Cross-linked polyethylene (PEX) tubing shall be marked with the appropriate standard designation(s) listed in Table 14-1 for which the tubing has been listed or approved. PEX tubing shall be installed in compliance with the provisions of this section.

Proposed Amendment:

604.11 PEX. ~~[Not Adopted by BSC]~~ Cross-linked polyethylene (PEX) tubing shall be marked with the appropriate standard designation(s) listed in Table 14-1 for which the tubing has been listed or approved. PEX tubing shall be installed in compliance with the provisions of this section.

Rationale:

Building standards for cross-linked polyethylene tubing (PEX) first appeared in the 2000 Uniform Plumbing Code; and building standards for cross-linked polyethylene-aluminum-cross-linked polyethylene tubing (PEX-AL-PEX) first appeared in the 2003 Uniform Plumbing Code. PEX and PEX-AL-PEX are now utilized in 49 other states and over 300 localities in California. BSC gives great weight to the methods and testing which led to inclusion of these products in the Uniform Plumbing Code; and for this reason included the products in the proposed 2007 California Plumbing Code. However, during the public comment period for adoption of these products into the 2007 California Plumbing Code several issues were raised that cannot be fully addressed within the timeframe for adoption in this code adoption cycle. Therefore, BSC proposes to remove proposed building standards for PEX and PEX-AL-PEX from the proposed 2007 California Plumbing Code.

Withdrawal of PEX and PEX-AL-PEX from the proposed California Plumbing Code does not result in a prohibition of the use of these products. Local building officials remain authorized to approve PEX and PEX-AL-PEX pursuant to alternate approval provisions on a case-by-case basis, or by ordinance, upon an expressed finding that it is reasonably necessary because of local climatic, geological, or topographical conditions.

Original Proposed Amendment:

604.11.1 PEX Fittings. ~~[Not Adopted by BSC]~~ Metal insert fittings, metal compression fittings, and cold expansion fittings used with PEX tubing shall be manufactured to and marked in accordance with the standards for the fittings in Table 14-1.

Proposed Amendment:

604.11.1 PEX Fittings. ~~[Not Adopted by BSC]~~ Metal insert fittings, metal compression fittings, and cold expansion fittings used with PEX tubing shall be manufactured to and marked in accordance with the standards for the fittings in Table 14-1.

Rationale:

Building standards for cross-linked polyethylene tubing (PEX) first appeared in the 2000 Uniform Plumbing Code; and building standards for cross-linked polyethylene-aluminum-cross-linked polyethylene tubing (PEX-AL-PEX) first appeared in the 2003 Uniform Plumbing Code. PEX and PEX-AL-PEX are now utilized in 49 other states and over 300 localities in California. BSC gives great weight to the methods and testing which led to inclusion of these products in the Uniform Plumbing Code; and for this reason included the products in the proposed 2007 California Plumbing Code. However, during the public comment period for adoption of these products into the 2007 California Plumbing Code several issues were raised that cannot be fully addressed within the timeframe for adoption in this code adoption cycle. Therefore, BSC proposes to remove proposed building standards for PEX and PEX-AL-PEX from the proposed 2007 California Plumbing Code.

Withdrawal of PEX and PEX-AL-PEX from the proposed California Plumbing Code does not result in a prohibition of the use of these products. Local building officials remain authorized to approve PEX and PEX-AL-PEX pursuant to alternate approval provisions on a case-by-case basis, or by ordinance, upon an expressed finding that it is reasonably necessary because of local climatic, geological, or topographical conditions.

Original Proposed Amendment:

604.11.2 Water Heater Connections. ~~[Not Adopted by BSC]~~ PEX tubing shall not be installed within the first eighteen (18) inches (457mm) of piping connected to a water heater.

Proposed Amendment:

604.11.2 Water Heater Connections. ~~[Not Adopted by BSC]~~ PEX tubing shall not be installed within the first eighteen (18) inches (457mm) of piping connected to a water heater.

Rationale:

Building standards for cross-linked polyethylene tubing (PEX) first appeared in the 2000 Uniform Plumbing Code; and building standards for cross-linked polyethylene-aluminum-cross-linked polyethylene tubing (PEX-AL-PEX) first appeared in the 2003 Uniform Plumbing Code. PEX and PEX-AL-PEX are now utilized in 49 other states and over 300 localities in California. BSC gives great weight to the methods and testing which led to inclusion of these products in the Uniform Plumbing Code; and for this reason included the products in the proposed 2007 California Plumbing Code. However, during the public comment period for adoption of these products into the 2007 California Plumbing Code several issues were raised that cannot be fully addressed within the timeframe for adoption in this code adoption cycle. Therefore, BSC proposes to remove proposed building standards for PEX and PEX-AL-PEX from the proposed 2007 California Plumbing Code.

Withdrawal of PEX and PEX-AL-PEX from the proposed California Plumbing Code does not result in a prohibition of the use of these products. Local building officials remain authorized to approve PEX and PEX-AL-PEX pursuant to alternate approval provisions on a case-by-case basis, or by ordinance, upon an expressed finding that it is reasonably necessary because of local climatic, geological, or topographical conditions.

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17921, 17922, 18300, 18865 and 19990; and Government Code Sections 12955.1 and 12955.1.1.

Reference: Health and Safety Code Sections 17000 through 17060, 17910 through 17995.5, 18630, 18640, 18690, 18873.1, 18873.2, 18873.4 and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

Original Proposed Amendment:

None proposed for this section.

Proposed Amendment:

604.13 PEX-AL-PEX and PE-AL-PE. Crosslinked polyethylene-aluminum-crosslinked polyethylene (PEX-AL-PEX) and polyethylene-aluminum-polyethylene (PE-AL-PE) composite pipe shall be marked with the appropriate standard designations listed in Table 14-1 for which the piping has been listed or approved. PEX-AL-PEX and PE-AL-PE piping shall be installed in compliance with the provisions of this section.

[BSC] PEX-AL-PEX is not adopted for use in potable water supply and distribution systems.**Rationale:**

Building standards for cross-linked polyethylene tubing (PEX) first appeared in the 2000 Uniform Plumbing Code; and building standards for cross-linked polyethylene-aluminum-cross-linked polyethylene tubing (PEX-AL-PEX) first appeared in the 2003 Uniform Plumbing Code. PEX and PEX-AL-PEX are now utilized in 49 other states and over 300 localities in California. BSC gives great weight to the methods and testing which led to inclusion of these products in the Uniform Plumbing Code; and for this reason included the products in the proposed 2007 California Plumbing Code. However, during the public comment period for adoption of these products into the 2007 California Plumbing Code several issues were raised that cannot be fully addressed within the timeframe for adoption in this code adoption cycle. Therefore, BSC proposes to remove proposed building standards for PEX and PEX-AL-PEX from the proposed 2007 California Plumbing Code.

Withdrawal of PEX and PEX-AL-PEX from the proposed California Plumbing Code does not result in a prohibition of the use of these products. Local building officials remain authorized to approve PEX and PEX-AL-PEX pursuant to alternate approval provisions on a case-by-case basis, or by ordinance, upon an expressed finding that it is reasonably necessary because of local climatic, geological, or topographical conditions.

Original Proposed Amendment:

None proposed for this section.

Proposed Amendment:

604.13.1 PEX-AL-PEX and PE-AL-PE. Fittings used with PEX-AL-PEX and PE-AL-PE piping shall be manufactured to and marked in accordance with the standard for the fittings in Table 14-1.

[BSC] PEX-AL-PEX is not adopted for use in potable water supply and distribution systems

Rationale:

Building standards for cross-linked polyethylene tubing (PEX) first appeared in the 2000 Uniform Plumbing Code; and building standards for cross-linked polyethylene-aluminum-cross-linked polyethylene tubing (PEX-AL-PEX) first appeared in the 2003 Uniform Plumbing Code. PEX and PEX-AL-PEX are now utilized in 49 other states and over 300 localities in California. BSC gives great weight to the methods and testing which led to inclusion of these products in the Uniform Plumbing Code; and for this reason included the products in the proposed 2007 California Plumbing Code. However, during the public comment period for adoption of these products into the 2007 California Plumbing Code several issues were raised that cannot be fully addressed within the timeframe for adoption in this code adoption cycle. Therefore, BSC proposes to remove proposed building standards for PEX and PEX-AL-PEX from the proposed 2007 California Plumbing Code.

Withdrawal of PEX and PEX-AL-PEX from the proposed California Plumbing Code does not result in a prohibition of the use of these products. Local building officials remain authorized to approve PEX and PEX-AL-PEX pursuant to alternate approval provisions on a case-by-case basis, or by ordinance, upon an expressed finding that it is reasonably necessary because of local climatic, geological, or topographical conditions.

Original Proposed Amendment:

None proposed for this section.

Proposed Amendment:

604.13.2 Water Heater Connections. PEX-ALPEX or PE-AL-PE tubing shall not be installed within the first eighteen inches (18) (457 mm) of piping connected to a water heater.

[BSC 1] PEX-AL-PEX is not adopted for use in potable water supply and distribution systems**Rationale:**

Building standards for cross-linked polyethylene tubing (PEX) first appeared in the 2000 Uniform Plumbing Code; and building standards for cross-linked polyethylene-aluminum-cross-linked polyethylene tubing (PEX-AL-PEX) first appeared in the 2003 Uniform Plumbing Code. PEX and PEX-AL-PEX are now utilized in 49 other states and over 300 localities in California. BSC gives great weight to the methods and testing which led to inclusion of these products in the Uniform Plumbing Code; and for this reason included the products in the proposed 2007 California Plumbing Code. However, during the public comment period for adoption of these products into the 2007 California Plumbing Code several issues were raised that cannot be fully addressed within the timeframe for adoption in this code adoption cycle. Therefore, BSC proposes to remove proposed building standards for PEX and PEX-AL-PEX from the proposed 2007 California Plumbing Code.

Withdrawal of PEX and PEX-AL-PEX from the proposed California Plumbing Code does not result in a prohibition of the use of these products. Local building officials remain authorized to approve PEX and PEX-AL-PEX pursuant to alternate approval provisions on a case-by-case basis, or by ordinance, upon an expressed finding that it is reasonably necessary because of local climatic, geological, or topographical conditions.
